

July 2009

County of Simcoe North Simcoe Landfill – Site 41 Waste Disposal Site Design

The Ministry of the Environment approved the County of Simcoe North Simcoe Landfill - Site 41 for the use and operation of a 21-hectare landfill site within a total site area of 60 hectares. The site can only receive domestic, commercial and non-hazardous solid industrial wastes from the towns of Penetanguishene and Midland and the townships of Tay and Tiny. The site has a capacity of approximately 1.6 million cubic metres for waste and daily cover. The anticipated site life is more than 25 years. The site life may vary depending on waste diversion strategies.

Site 41 has undergone a full scientific review. Based on sound science, the Ministry of the Environment has set out conditions to make sure the landfill site will be constructed and operated safely.

Several features of Site 41 provide multiple barriers to protect the groundwater. All of these barriers will help contain leachate and protect the environment:

- A man-made, state-of-the-art liner
- A clay layer at least three metres thick between the waste and the underlying water
- The upward movement of groundwater
- A leachate collection system.

In addition, 20 monitoring wells around the site will provide assurance that the barriers are fully protecting the groundwater.

An on-site environmental inspector is dedicated to the site to ensure the County complies with all ministry conditions during the construction and operation of the landfill.

The Permit to Take Water issued for the site in December 2008 is a temporary dewatering permit to allow for the construction of the landfill cells. The permit contains 39 conditions – 21 of which are special conditions specific to this permit – to protect the environment.

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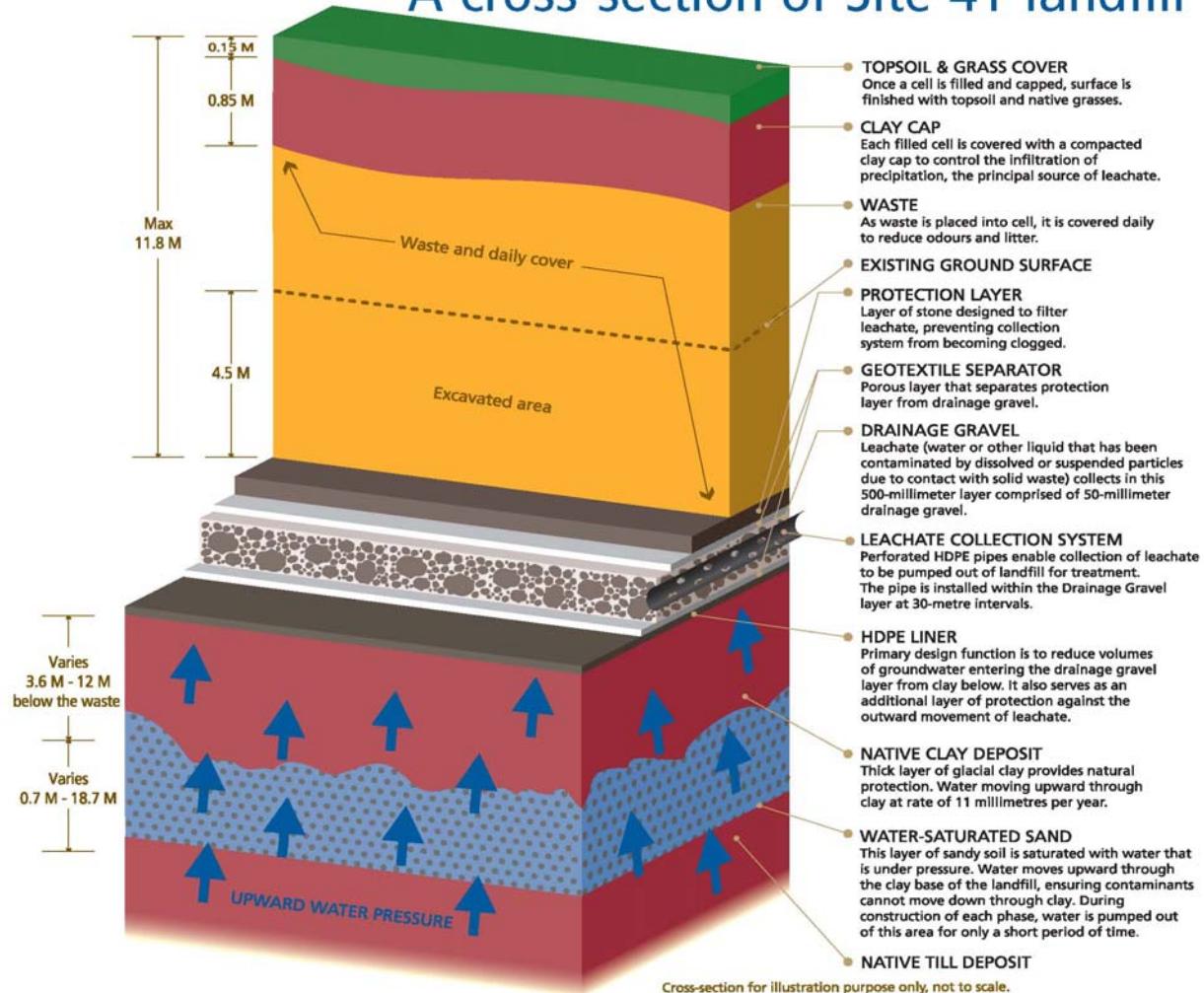
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This diagram shows what the landfill site will look like, based on the County of Simcoe's construction plans.

A cross-section of Site 41 landfill



Source: County of Simcoe, "Managing Your Waste" newsletter, 2003

For further information on the Ministry of the Environment's regulatory authority over Site 41, contact the Barrie District Office at 705-739-6441.

Protecting our environment.

